



Photo No.: Photos-20180514-212410.jpg
Description: Inlet



Photo No.: Photos-20180514-212444.jpg
Description: Upstream



Photo No.: Photos-20180514-212500.jpg
Description: Downstream



Photo No.: Photos-20180514-212529.jpg
Description: Deck



Photo No.: Photos-20180514-212625.jpg
Description: Outlet

Crossing ID: WC_0330

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 11, 2018
Watercourse Name: Sturgeon River
GPS Co-ordinates:
 UTM: 11 | Easting: 691,046 | Northing: 5,956,120

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 100m (Estimated to Nearest Metre)
Crossing Type: Bridge - Permanent
Erosion at Site: No

Most Common Bridge Substructure Material: Timber
Total Deck Length: 10 m
Deck Width (Number of Lanes): 1
Decking Material: Concrete
Decking Pattern: Open
Curb Type: Concrete
Road Surface Material: Gravel
Abutment Type: Log Pilings
Abutment Functioning?: Yes - in good condition and no materials eroding from underneath
Wingwall Functioning?: Yes - in good condition and no materials eroding from underneath
Armour: None
Opening Blockage: 0%
Cause of blockage: Other - none
Structural Problems: Yes, damaged guardrail
Bridge Signs: No, sign is not present
Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns
Emergency Repair Required?: No
Overall Risk: Low
Comments: Water is in contact with abutment walls. Large riparian area downstream of bridge.

Crossing ID: WC_0342



Photo No.: Photos-20180511-212631.jpg
Description: Downstream



Photo No.: Photos-20180511-212647.jpg
Description: Outlet



Photo No.: Photos-20180511-212849.jpg
Description: Deck



Photo No.: Photos-20180511-212902.jpg
Description: Upstream



Photo No.: Photos-20180511-212930.jpg
Description: Inlet

Crossing ID: WC_0342

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 11, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 686,345 | **Northing:** 5,956,762

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 8m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Timber

Total Deck Length: 19 m

Deck Width (Number of Lanes): 2

Decking Material: Concrete

Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: Yes - in good condition and no materials eroding from underneath

Armour: Other - abutment walls

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Fill slope is in contact with abutment walls.

Crossing ID: WC_0343



Photo No.: Photos-20180511-204314.jpg
Description: Deck



Photo No.: Photos-20180511-204517.jpg
Description: Upstream



Photo No.: Photos-20180511-204529.jpg
Description: Inlet



Photo No.: Photos-20180511-204623.jpg
Description: Downstream



Photo No.: Photos-20180511-204650.jpg
Description: Outlet

Crossing ID: WC_0343

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 08, 2018

Watercourse Name: Riviere Qui Barre

GPS Co-ordinates:

UTM: 12 | **Easting:** 311,776 | **Northing:** 5,955,732

Stream Classification: Fluvial (Permanent - Small)

Bankfull Width: 8m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Concrete

Total Deck Length: 20 m

Deck Width (Number of Lanes): 2

Decking Material: Concrete

Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Concrete Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: Yes - in good condition and no materials eroding from underneath

Armour: Riprap

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments:

Crossing ID: WC_0348



Photo No.: Photos-20180508-213850.jpg
Description: Upstream



Photo No.: Photos-20180508-213901.jpg
Description: Inlet



Photo No.: Photos-20180508-214000.jpg
Description: Downstream



Photo No.: Photos-20180508-214009.jpg
Description: Outlet

Crossing ID: WC_0348

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 08, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting:** 311,205 | **Northing:** 5,955,396

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: Yes **Erosion Location (Inlet or Outlet):** Both

Erosion Source: Fill Slope

Erosion Extent: Low **Total Erosion Area:** 18 m²

Most Common Bridge Substructure Material: Timber

Total Deck Length: 19 m

Deck Width (Number of Lanes): 1

Decking Material: Concrete

Decking Pattern: Open

Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: Yes - in good condition and no materials eroding from underneath

Armour: Vegetation

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Damaged, sign is either down or needs to be replaced

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Some lumber on abutment walls missing.

Crossing ID: WC_0355



Photo No.: Photos-20180508-212420.jpg
Description: Outlet



Photo No.: Photos-20180508-212500.jpg
Description: Deck



Photo No.: Photos-20180508-212520.jpg
Description: Downstream



Photo No.: Photos-20180508-212537.jpg
Description: Upstream



Photo No.: Photos-20180508-212638.jpg
Description: Inlet

Crossing ID: WC_0355

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 16, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting:** 313,990 | **Northing:** 5,955,109

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 12m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: Yes **Erosion Location (Inlet or Outlet):** Both

Erosion Source: Bank Slump

Erosion Extent: Low **Total Erosion Area:** 9 m²

Most Common Bridge Substructure Material: Concrete

Total Deck Length: 40 m

Deck Width (Number of Lanes): 2

Decking Material: Concrete

Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Concrete Blocks

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: No wingwalls present

Armour: Vegetation

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Some riprap present but not complete. No wingwalls present.

Crossing ID: WC_0356

NSWA Sturgeon River Watercourse Assessment



Photo No.: Photos-20180516-200042.jpg
Description: Upstream



Photo No.: Photos-20180516-200102.jpg
Description: Inlet



Photo No.: Photos-20180516-200142.jpg
Description: Downstream



Photo No.: Photos-20180516-200201.jpg
Description: Outlet

Crossing ID: WC_0356

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 14, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting:** 306,549 | **Northing:** 5,955,875

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Steel

Total Deck Length: 24 m

Deck Width (Number of Lanes): 2

Decking Material: Concrete

Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Steel Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: Yes - in good condition and no materials eroding from underneath

Armour: Riprap

Opening Blockage: <10%

Cause of blockage: Organic debris

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Build up of organic debris on abutment pilings.

Crossing ID: WC_0358



Photo No.: Photos-20180514-213825.jpg
Description: Upstream



Photo No.: Photos-20180514-213844.jpg
Description: Inlet



Photo No.: Photos-20180514-213929.jpg
Description: Downstream



Photo No.: Photos-20180514-213953.jpg
Description: Outlet



Photo No.: Photos-20180514-214037.jpg
Description: Debris build up

Crossing ID: WC_0358

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 18, 2018

Watercourse Name: Carrot Creek

GPS Co-ordinates:

UTM: 12 | **Easting:** 324,146 | **Northing:** 5,953,573

Stream Classification: Fluvial (Permanent - Small)

Bankfull Width: 4m (Estimated to Nearest Metre)

Crossing Type: Culvert - Multiple

Erosion at Site: No

Structural Problems: None

Culvert(s) Diameter: 1) 1.5 m

2) 1.5 m

Greater than 10% of the culvert diameter blocked by debris?: No

Substrate in Culvert?: Unknown **Substrate Type:** unknown

For what length of culvert?: unknown

What proportion has backwater?: 75%

Culvert Slope: Level and Uniform

Outlet Gap: none

Embedded?: No

Pool Depth: none

Scour pool apparent?: No

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Creek follows ditch downstream. Upstream comes into contact with culvert at an angle, some pooling noted.

Crossing ID: WC_0364

NSWA Sturgeon River Watercourse Assessment



Photo No.: Photos-20180518-165629.jpg
Description: Upstream



Photo No.: Photos-20180518-165658.jpg
Description: Inlet



Photo No.: Photos-20180518-165751.jpg
Description: Downstream



Photo No.: Photos-20180518-165807.jpg
Description: Culvert 1 - Outlet



Photo No.: Photos-20180518-165830.jpg
Description: Culvert 2 - Outlet



Photo No.: Photos-20180518-165939.jpg
Description: Culvert downstream from farm access road 20m downstream

Crossing ID: WC_0364

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 11, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates

UTM: 11 | **Easting:** 679,848 | **Northing:** 5,955,803

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: Yes **Erosion Location (Inlet or Outlet):** Both

Erosion Source: Fill Slope

Erosion Extent: Low **Total Erosion Area:** 6 m²

Most Common Bridge Substructure Material: Timber

Total Deck Length: 16 m

Deck Width (Number of Lanes): 1

Decking Material: Concrete

Decking Pattern: Open

Curb Type: Concrete

Road Surface Material: Gravel

Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: Yes, damaged guardrail

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Fill slope erosion noted due to no armour present.

Crossing ID: WC_0366



Photo No.: Photos-20180511-191217.jpg
Description: Downstream



Photo No.: Photos-20180511-191228.jpg
Description: Upstream



Photo No.: Photos-20180511-191249.jpg
Description: Deck



Photo No.: Photos-20180511-191311.jpg
Description: Inlet



Photo No.: Photos-20180511-191426.jpg
Description: Outlet

Crossing ID: WC_0366

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 11, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 679,315 | **Northing:** 5,955,528

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Concrete

Total Deck Length: 20 m

Deck Width (Number of Lanes): 2

Decking Material: Concrete

Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Concrete Blocks

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: None present

Armour: Riprap

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: Some Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Beaver dam located 125m upstream from bridge. 25m upstream from CN bridge. dam sitting at 1m high. flow going over top of dam. Rip rap redone on south end of inlet

Crossing ID: WC_0368



Photo No.: Photos-20180511-184919.jpg
Description: Inlet



Photo No.: Photos-20180511-184956.jpg
Description: Upstream



Photo No.: Photos-20180511-185105.jpg
Description: Downstream



Photo No.: Photos-20180511-185132.jpg
Description: Outlet

Crossing ID: WC_0368

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 11, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 679,293 | **Northing:** 5,955,504

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Concrete

Total Deck Length: 20 m

Deck Width (Number of Lanes): 2

Decking Material: Concrete

Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Concrete Blocks

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: None present

Armour: Riprap

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: Some Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: beaver dam located 75m upstream, upstream of CN bridge. channel thins through CN bridge then widens under highway bridge

Crossing ID: WC_0379

NSWA Sturgeon River Watercourse Assessment



Photo No.: Photos-20180511-183912.jpg
Description: Upstream



Photo No.: Photos-20180511-183939.jpg
Description: Inlet



Photo No.: Photos-20180511-184027.jpg
Description: Beaver dam upstream



Photo No.: Photos-20180511-184145.jpg
Description: Downstream



Photo No.: Photos-20180511-184158.jpg
Description: Outlet

Crossing ID: WC_0379

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 11, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 689,647 | **Northing:** 5,956,031

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 6m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Timber

Total Deck Length: 16 m

Deck Width (Number of Lanes): 1

Decking Material: Concrete

Decking Pattern: Open

Curb Type: Concrete

Road Surface Material: Gravel

Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: Yes, damaged guardrail

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Bridge is at capacity for water level, hard to determine integrity of structure.

Noted to find 2 dead adult foxes near waters edge

Crossing ID: WC_0357



Photo No.: Photos-20180511-211227.jpg
Description: Downstream



Photo No.: Photos-20180511-211255.jpg
Description: Upstream



Photo No.: Photos-20180511-211314.jpg
Description: Deck



Photo No.: Photos-20180511-211351.jpg
Description: Inlet



Photo No.: Photos-20180511-211457.jpg
Description: Outlet

Crossing ID: WC_0357

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 11, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 678,900 | **Northing:** 5,955,295

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 6m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: Potential **Erosion Location (Inlet or Outlet):** Both

Erosion Source: Bank Slump

Erosion Extent: Low **Total Erosion Area:** 20 m²

Most Common Bridge Substructure Material: Timber

Total Deck Length: 7 m

Deck Width (Number of Lanes): 1

Decking Material: Wood

Decking Pattern: Open

Curb Type: None - There is no curb, or the curb pattern has openings

Road Surface Material: Gravel

Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: **Low**

Comments: steep bank slope from road near wing walls. 45 degree angle down, it's vegetated.

Crossing ID: WC_0382

NSWA Sturgeon River Watercourse Assessment



Photo No.: Photos-20180511-180920.jpg
Description: Upstream



Photo No.: Photos-20180511-181011.jpg
Description: Inlet



Photo No.: Photos-20180511-181053.jpg
Description: Downstream



Photo No.: Photos-20180511-181125.jpg
Description: Outlet



Photo No.: Photos-20180511-181206.jpg
Description: Deck



Photo No.: Photos-20180511-181239.jpg
Description: Possible erosion from road to bank

Crossing ID: WC_0382

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 16, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting:** 315,354 | **Northing:** 5,952,380

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 12m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Steel

Total Deck Length: 36 m

Deck Width (Number of Lanes): 1

Decking Material: Concrete

Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Gravel

Abutment Type: Steel Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: None present

Armour: Other - steel pilings with steel sheets horizontally between them

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Possible erosion control present at bank level. Water can still get behind steel pilings and fill slope.

Crossing ID: WC_0397

NSWA Sturgeon River Watercourse Assessment



Photo No.: Photos-20180516-202230.jpg
Description: Deck



Photo No.: Photos-20180516-202305.jpg
Description: Upstream



Photo No.: Photos-20180516-202328.jpg
Description: Downstream



Photo No.: Photos-20180516-202524.jpg
Description: Outlet



Photo No.: Photos-20180516-202538.jpg
Description: Erosion control?



Photo No.: Photos-20180516-202731.jpg
Description: Inlet

Crossing ID: WC_0397

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 18, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting:** 330,389 | **Northing:** 5,951,641

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Concrete

Total Deck Length: 40 m

Deck Width (Number of Lanes): 2

Decking Material: Concrete

Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Concrete Blocks

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Area below walking path is grass vegetated. This could lead to erosional issues.

Crossing ID: WC_0426



Photo No.: Photos-20180518-145713.jpg
Description: Upstream



Photo No.: Photos-20180518-145736.jpg
Description: Inlet



Photo No.: Photos-20180518-145814.jpg
Description: Outlet



Photo No.: Photos-20180518-145845.jpg
Description: Downstream



Photo No.: Photos-20180518-145855.jpg
Description: Downstream



Photo No.: Photos-20180518-150002.jpg
Description: Areas upstream and downstream have small flood plains that are flooded

Crossing ID: WC_0426

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 16, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting:** 317,362 | **Northing:** 5,950,071

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 12m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Steel

Total Deck Length: 30 m

Deck Width (Number of Lanes): 1

Decking Material: Concrete

Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Gravel

Abutment Type: Steel Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: None present

Armour: Other - steel walls but none on fill slope

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: river and ice barges caused flooding across flood plain this past spring says landowner. old bridge abutments still in channel but lower than water level

Crossing ID: WC_0479



Photo No.: Photos-20180516-204223.jpg
Description: Deck



Photo No.: Photos-20180516-204315.jpg
Description: Upstream



Photo No.: Photos-20180516-204330.jpg
Description: Downstream



Photo No.: Photos-20180516-204414.jpg
Description: Outlet



Photo No.: Photos-20180516-204542.jpg
Description: Inlet

Crossing ID: WC_0479

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 14, 2018

Watercourse Name: Kilini Creek

GPS Co-ordinates:

UTM: 11 | **Easting:** 689,193 | **Northing:** 5,950,850

Stream Classification: Fluvial (Permanent - Small)

Bankfull Width: 5m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Timber

Total Deck Length: 5 m

Deck Width (Number of Lanes): 1

Decking Material: Concrete

Decking Pattern: Open

Curb Type: Concrete

Road Surface Material: Gravel

Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Organic debris

Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Stream converges at bridge from 2 different directions. Bridge is at stream capacity, unable to determine structural integrity. Some organic debris blockage.

Crossing ID: WC_0506



Photo No.: Photos-20180514-171129.jpg
Description: Upstream south



Photo No.: Photos-20180514-171153.jpg
Description: Upstream - Southwest



Photo No.: Photos-20180514-171213.jpg
Description: Deck



Photo No.: Photos-20180514-171231.jpg
Description: Downstream



Photo No.: Photos-20180514-171311.jpg
Description: Outlet



Photo No.: Photos-20180514-171424.jpg
Description: Inlet

Crossing ID: WC_0506

NSWA Sturgeon River Watercourse Assessment



Inspection Date: May 11, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 659,053 | **Northing:** 5,951,080

Stream Classification: Fluvial (Permanent - Large)

Bankfull Width: 12m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: Yes **Erosion Location (Inlet or Outlet):** Both

Erosion Source: Fill Slope, Other (snowmobile trail)

Erosion Extent: Low **Total Erosion Area:** 17 m²

Most Common Bridge Substructure Material: Timber

Total Deck Length: 13 m

Deck Width (Number of Lanes): 1

Decking Material: Concrete

Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: Yes, damaged guardrail

Bridge Signs: Yes, sign is present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Upstream has defined channel, downstream dissipates into wetland with no defined channel noted.

Snowmobile trail noted with signage under bridge and spot to leave ice and travel along the ditch. Area has exposed ground.

Crossing ID: WC_0532